

## JP 49006839

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 TITLE: Polyesters  
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AB Polyesters with good whiteness are prepared by adding malonic acid [141-82-2] or its derivative  $[R_1C(R_2)(CO_2H)_2]$ ;  $R_1, R_2 = H, \text{ alkyl, cycloalkyl, aryl, allyl}$  to the polymerization system of bis(hydroxyethyl) terephthalate in the

presence of a Sb compound catalyst. Thus, a mixture of di-Me terephthalate 10,000, ethylene glycol 7500, and  $Mg(OAc)_2$  6 parts was transesterified, mixed at  $240^\circ$  with 3.2 parts tri-Me phosphate dissolved in ethylene glycol, mixed with a heated mixture of  $Sb_2O_3$  [1309-64-4] 5, ethylene glycol 200, and malonic acid 3.6 parts, and polymerized 2 hr at  $285^\circ/2mm$  to give a white polyester with softening point  $261^\circ$  and intrinsic viscosity 0.757 (1:1  $PhOH-CHCl_2CHCl_2$ ,  $25^\circ$ ), from which a polyester fiber with good whiteness was obtained.